

C1 1. (Twice Amended) A method for improving heart function in a patient having cardiac scar tissue, said method comprising administering to said cardiac scar tissue a cellular suspension containing mesenchymal stem cells, ^{which have been treated w/ 5-aza} wherein said administered cells survive in said cardiac scar tissue and improve heart function in said patient.

C2 2. (Twice Amended) The method of claim 1, wherein said mesenchymal stem cells have been induced to differentiate into cardiomyogenic cells prior to administration.

4. (Twice Amended) The method of claim 1, wherein said mesenchymal stem cells have been cultured for at least 7 days prior to administration.

C3 5. (Twice Amended) The method of claim 2, wherein said mesenchymal stem cells have been induced to differentiate by co-culture with cardiomyocytes.

C4 6. (Once Amended) The method of any one of claims 1-2, 4-5 and 7-11, wherein said mesenchymal stem cells are autologous to the patient being treated.